

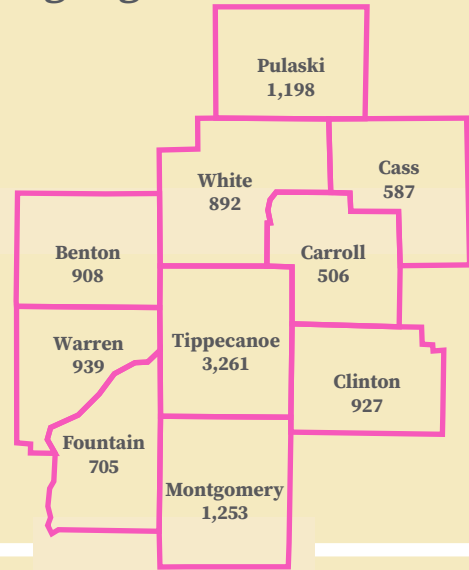


Purdue-WHIN Achievement Highlights

By the ← Numbers

Across the 10-county region (including Benton, Carroll, Cass, Clinton, Fountain, Montgomery, Pulaski, Tippecanoe, Warren & White counties), WHIN-Purdue totaled 11,176 engagements.

← **11,176**
engagements



589
college
students
impacted



From 2018-2022, 215 Purdue University students graduated with bachelor's (125) or master's (90) degrees in digital agriculture, taking courses that didn't exist before WHIN. At Ivy Tech Community College, 354 students participated in agriculture and manufacturing classes, with 20 completing summer internships in the region as WHINterns.



← **785**
certificates
awarded

Since the WHIN launch, 785 certificates have been awarded to regional residents (including farmers, first responders and medical personnel interested in becoming drone operators) who participated in the Unmanned Aerial Vehicle (UAV) Technology Signature Program.



4,291
grade-school
students
impacted



Youth also greatly benefitted from the WHIN initiative. From computer programming with CoderDojo, to engineering at the IN-MaC Design and Innovation Studio, to Robotics Camp to Manufacturing Week, 607 elementary students, 744 middle school students and 2,940 high school students in the WHIN region have been served.



← **5**
patents
filed

Five patents for inventions were filed with Purdue's Office of Technology and Commercialization (OTC) – in digital agriculture, smart sensors, data analytics and animal science.

100

**IMT
college users**



Users of Indiana Manufacturing Testbed (IMT) include close to 100 undergraduate and graduate students in addition to over 30 projects with WHIN companies – focused on innovation and implementation in the fields of automation, data analytics, communications and visualization.



From start to finish of the WHIN initiative, the WHIN-Purdue Manufacturing Education Team tallied over 3,339 engagements and made more than 236 visits to WHIN companies. The team created 8 Peer Network and Special Interest groups across the region that will continue to meet even after the funding is expended.

Their 4 user groups (Power BI, HR, Smart Tech Group and EV-Battery) include approximately 75 companies in each group. Over the grant life cycle, 126 companies attended trainings, 490 individuals attended workshops/lunch-and-learn events, and 150 student-based projects involved more than 250 students gaining real business experience.

3,339

**manufacturing
education
engagements**



800+

**online
courses**



The Manufacturing Education Portal has recorded over 3,040 users and 13,000 page views from 2018-2022, offering more than 800 courses online to regional companies and their employees/local residents.



A total of 81 agricultural and 29 manufacturing IoT nodes were deployed in the region as a result of the WHIN initiative. This includes commercial sensors, as well as Purdue's printed sensors. These sensors were the basis of student projects with local farmers and manufacturers.

110

**nodes
deployed**



**1,524
jobs created
&
\$21M+
leveraged**



Purdue leveraged the Lilly Endowment Inc. (LEI) grant for a total of:

- \$6,413,000 in additional investments in next-generation manufacturing initiatives and innovations, resulting in a 76.7% return on investment (ROI).
- \$14,619,621 in additional investments in digital agriculture initiatives and innovations, resulting in a 174.9% return on investment (ROI).
- Overall, 1,524 jobs were gained in the ag biosciences and metal processing superclusters in the WHIN Region from 2017 to 2022 because of the regional economic trends and investments.

